



DENSION

Current Product Portfolio



Dension Audio Systems Kft.

December 2011

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Current Dension product portfolio

	iPod	USB	BT	Control	Text	AUX	iPod cable inc.
Ice Link ONE (FM) with cradle	▶					▶	▶
Car Dock	▶		▶				
Gateway Lite BT	▶	▶	▶	▶		▶ *	
Gateway 100	▶			▶	▶	▶	
Gateway 300	▶	▶		▶	▶	▶	
Gateway Five	▶	▶	▶	▶	▶	▶	
Gateway Lite (MOST & D2B)	▶	▶		▶			
Gateway 500	▶	▶	▶	▶	▶	▶	▶
Gateway Lite 3	▶	▶		▶		▶ *	

*optional: with an aux-cable accessories (CABL-AUX)

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ICE>Link ONE – Universal Products



Features

- ▶ Listen to your iPod / iPhone on your car radio
- ▶ Simple, clip-on air vent mount
- ▶ iPod / iPhone **charging**
- ▶ Additional **AUX input** source
- ▶ Seven user – selectable FM frequencies
- ▶ **Hard wired solution** for excellent sound quality
- ▶ Standard **ISO** or **Fakra** connector supported

Compatible devices

- ▶ Supports iPods from **4G Photo** to **recent models** and
All iPhone models up to 4G
- ▶ Every other multimedia devices via **standard 3.5 mm Jack**



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- ▶ With **3G** cradle (ILF7CR91)
- ▶ With **5G** cradle (ILF6CR91)

- ▶ **3G cradle:** Nano 2, 3, 5G video, iPhone 1 & 4 , touch, Classic
- ▶ **5G cradle:** Nano 4,5 , iPhone 3G & 3GS

- ▶ 4 pin Micro-fit connector
- ▶ **Red** – Permanent power
- ▶ **Black** – Ground
- ▶ **Purple** – Switched ignition





Car Dock for iPhone (IPH1CR0)



Features

- ▶ Hands free calling
- ▶ Windscreen or dash mount
- ▶ Charging (even up to 1A)
- ▶ Audio output via Aux or FM
- ▶ Built in microphone
- ▶ Application for optimised in-car use (available from mid-May)
- ▶ Compatible with iPhone 4, 3GS, 3G
- ▶ Power from cigar lighter
- ▶ Adjustable cradle (horizontal, vertical)



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Car Dock for iPhone



Package content

- ▶ Power and AUX cable
- ▶ Cigar lighter charger
- ▶ Windscreen and dash mount
- ▶ Cleaning wipes
- ▶ iPhone 4 **adapters**
- ▶ Manual (WEB Based)
- ▶ Torx screwdriver ("built-in")
- ▶ Quick guide



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Car Dock for iPhone

Connections



AUX

FM
Power



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Gateway Lite 3 and Gateway Lite BT



Features

- ▶ Simple, seamless iPod, iPhone, Smartphone and USB device car integration
- ▶ Bluetooth handsfree (with Gateway Lite BT)
- ▶ Full device control with the original car radio buttons
- ▶ 1A iPod and iPhone charging (no Power Booster needed for iPhone 4/4S users)
- ▶ 3.5mm auxiliary input jack (optional)

Package content

- ▶ Retail package
- ▶ Hardware
- ▶ Installation and user guide
- ▶ Car side harness



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Gateway Lite 3 and Gateway Lite BT



Installation

- ▶ Due to the longer car side harness glovebox installation is available without USB extension cable.

Accessories

- 3G cradle (IP44CR9)
- iPhone cradle extension kit (IPH1GW0)
- iPod dock cable (IPO5DC9)
- Aux cable (CABL-AUX)

Supported audio devices

- USB: Flash Memory and Hard Disk Drive (USB1.1 and higher)
- File System: FAT16 or FAT32
- Storage capacity: up to 250GB music content
- Music Format: MP3, WMA and WAV, OGG
- iPod Classic, iPod (4th generation), iPod nano (1st, 2nd, 3rd, 4th, 5th and 6th generation), iPod mini
- iPod Photo 4G, iPod Video 5G
- iPod Touch (1st, 2nd and 3rd generation)
- iPhone, iPhone 3G / 3Gs & iPhone 4, 4S

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Gateway 100 CAN (GW16xxx) – iPod /iPhone and AUX

Features

- ▶ Designed for vehicles with **text capability**
- ▶ **iPod & AUX playback** through the car radio
- ▶ Easy to install
- ▶ Charges iPod with Power Booster **up to 1A**
- ▶ Available for VW, Audi, Opel, PSA and BMW*
- ▶ iPod / iPhone can be connected via **Dock** or **Cradle**

Compatible devices

- ▶ Supports iPods from **4G Photo** to **recent models** and **All iPhone** models up to 4G
- ▶ Every other multimedia devices via standard 3.5 mm Jack

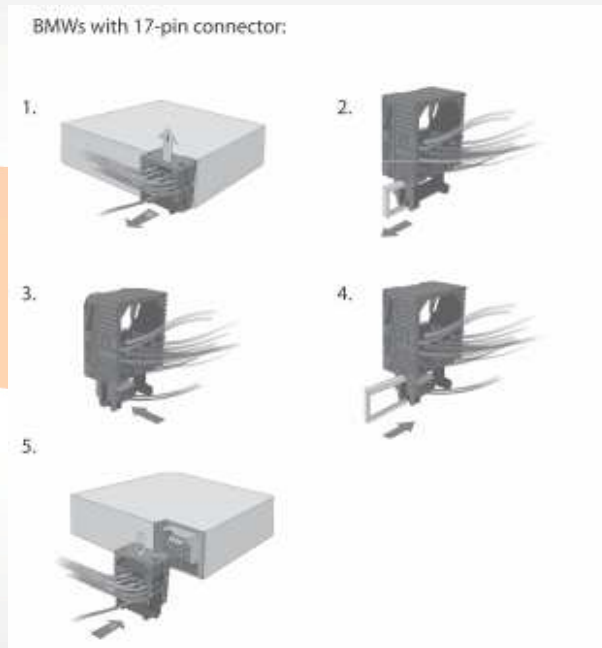
Package content

- ▶ Gateway device, car harness, User and Installation manual

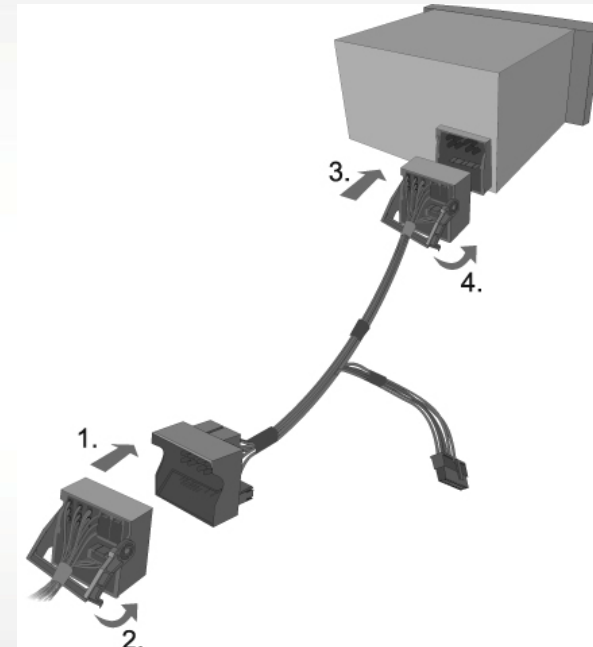




Gateway 100 CAN– How to install



BM1, 17 pin installation



**Quadlock Break Out
harness (CAN)**





Gateway 100 CAN (text)– Most popular SKU's

SKU	Product description	CD Retention Kit
GW16AC1	Audi CAN with Quadlock connector	No
GW16AC2	Audi CAN with Mini ISO connector	No
GW16BM1	BMW with 17 pin (round pin)	No
GW16BM4	BMW with Quadlock (flat pin)	Yes (CDR2BM4)
GW16PC1	PSA Dual CAN	No
GW16VC1	Volkswagen Single CAN	No
GW16V21	Volkswagen CAN BAP	No





Audi CAN compatibility with Quadlock – GW16AC1



Symphony Gen II+



Chorus Gen II+



Concert Gen II+



RNS-E

Requirements:

- ▶ Must have a Tuner RDS capable cluster
- ▶ Text is displayed on the cluster **only**

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Audi CAN compatibility with Mini ISO – GW16AC2



Symphony II



Chorus II



Concert II

Requirements:

- ▶ Must have a Tuner RDS capable cluster
- ▶ Text is displayed on the cluster **only**





VW Single CAN compatibility– GW16VC1



RCD 210



RCD 300



RCD 500

Requirements:

- ▶ Proper Head Unit
- ▶ **MFA High Line** cluster display because Text is displayed on the cluster **only**
- ▶ Steering wheel controls or stalk controller



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VW CAN BAP compatibility– GW16V21



RCD 310



RCD 510



RNS 510

Important notes:

- ▶ The **factory MDI** must be removed
- ▶ Media Player 3 (2E) option has to be enabled before or after the Gateway installation from MY2011
- ▶ From 2011 the GW300 (GW33V21) is **not compatible** with RCD310/510 & RNS510
- ▶ Current vehicles from MY2012 are not compatible with our current Gateway devices due to compatibility issues. **Resolution is progress.....**





Gateway Lite MOST (GWL1MO1)

Gateway Lite D2B (GWL1DB1)

Features

- ▶ Designed for vehicles **without text** capability
- ▶ iPod / USB playback through the car radio
- ▶ Cost effective solution
- ▶ Charges iPhone with power Booster **up to 1A**

Compatible devices

USB	Flash Memory and Hard Disk Drive (USB1.1 and higher) File System: FAT16 or FAT32 Storage capacity: up to 100 GB* Music Format: MP3, WMA and WAV, OGG
iPod, iPhone	iPod (4th generation) iPod nano (1st, 2nd, 3rd, 4 th , and 5 th generation) iPod mini iPod Photo 4G iPod Video 5G iPod Classic (80Gb, 120Gb and 160Gb) iPod Touch (1 st , 2 nd , 3 rd and 4 th generation) iPhone, iPhone 3G, iPhone 3GS and iPhone 4G

iPod / iPhone and USB
iPod / iPhone and USB



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Gateway 500 (GW51MO2) – iPod and USB playback and AUX support

Features

- ▶ iPod / USB playback through the car radio
- ▶ Installation is required (more profit for your dealer)
- ▶ Charges iPod / iPhone
- ▶ Power booster is required for 1A charging (**IPB1DIN**)
- ▶ Designed for vehicles with MOST optical system
- ▶ Retain original dashboard aesthetic
- ▶ Available for **Aston Martin, Audi, BMW, Mercedes, Porsche, Saab and Volvo**

Compatible devices

USB	Flash Memory and Hard Disk Drive (USB1.1 and higher) File System: FAT16 or FAT32 Storage capacity: up to 100 GB* Music Format: MP3, WMA and WAV, OGG
iPod, iPhone	iPod (4th generation) iPod nano (1st, 2nd, 3rd, 4 th , and 5 th generation) iPod mini iPod Photo 4G iPod Video 5G iPod Classic (80Gb, 120Gb and 160Gb) iPod Touch (1 st , 2 nd , 3 rd and 4 th generation) iPhone, iPhone 3G, iPhone 3GS and iPhone 4G

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GW500 (GW51MO2) compatibility – Audi

MMI Basic with monochrome display



model	MY start	MY end
A6	2005	2009
S6	2005	2009
Q7	2004	2008

MMI High with color display



model	MY start	MY end
A4	2008	2009
A5	2007	2009
A6/S6	2005	2009
A8/S8	2002	2009
Q7	2004	2009

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GW500 (GW51MO2) compatibility – BMW



Professional w/o iDrive

Notes:

- ▶ Single DIN Head Unit
- ▶ Available in 1 and 3 series

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Business with iDrive (M-ASK)

Notes:

- ▶ Screen is 6,5 inches
- ▶ Available in 1, 3, 5, 6 and X5 series
- ▶ **M-ASK** is available in 2 different versions, with or without **Navigation option**. Text is **possible only** with Navigation. For further details please read programming slide.





GW500 (GW51MO2) compatibility – BMW



Professional with iDrive (CCC)

Notes:

- ▶ Bigger screen (8,8 inches)
- ▶ Available in 1, 3, 5, 6, X5 and 7 series
- ▶ Text display is possible, however in early produced cars (< 03.2005), you may need to activate the KMP3 option (except on 7 ser).

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CIC Professional in **3 series**

Notes:

- ▶ Must have CDC or this option must be activated
- ▶ Modified HMI and iDrive controller
- ▶ 3 series only





GW500 (GW51MO2) compatibility – BMW enabling part 1

The table below summarizes all possible ways of installing the GW500 in BMW models. (Please note: This description is **valid only for iDrive 3** Audio Systems **non for iDrive 4**)

Options	E65 ¹ before 03/2005	E60 ² M-ASK	All other models
original CD changer fitted and MP3 capability ³ is already available	not possible combination ⁴	convert CD Changer option to „IPOD” retrofit ⁵	no programming required
original CD changer fitted and no MP3 capability is available, text capable BMW mode is used			retrofit “KMP3” option with service computer
original CD changer fitted and no MP3 capability is available, non text capable BMW mode is used	no programming required		
original CD changer not fitted	use BMW non-text DIP switch setting and retrofit CD Changer	retrofit “IPOD” option with service computer	





GW500 (GW51MO2) compatibility – BMW enabling part 2

Important notes:

If the SW of the car requires an update or a KMP3 activation, switch the Gateway to bypass/service mode before you start the procedure. Before converting or retrofitting IPOD option, switch back to GW mode.

- 1 - E65 means all 7 series model variations (E65/E66)
- 2 - E60 means all 5 and 6 series model variations (E60/E61/E63/E64)
- 3 - the car is MP3 capable if the front CD-Slot reads MP3 audio discs and the ID3 tags are visible on the display
- 4 - In case of E65 there was a Head Unit hardware change in 03/2005. Cars which were produced before this date cannot be enabled for MP3, therefore text capability will not be available with the Gateway
- 5 - M-ASK system without Navigation works only in non-text mode, therefore converting option is not necessary





GW500 (GW51MO2) compatibility – Mercedes



Audio 20

Notes:

- ▶ **Non-Text** capable
- ▶ Only NTG 1 & NTG 2 supported



Audio 50

Notes:

- ▶ **Non-Text** capable
- ▶ Only NTG 1 & NTG 2 supported



Command Head Unit

Notes:

- ▶ **Text** capable
- ▶ Only NTG1 & NTG 2 supported

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GW500 (GW51MO2) compatibility – Porsche



PCM 2.0 & 2.1

Notes:

- ▶ Text capable
- ▶ Button layouts can be different



CDR 23 / 24

Notes:

- ▶ Non-Text capable

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GW500 (GW51MO2) compatibility – Aston Martin DB9 and AMV8

Notes:

- ▶ As long as its not a 2010 model (uses Alpine system) the GW500 can be fitted
- ▶ Follow installation **type 2A**
- ▶ DIP switches are **2,4 ON** (like XC90 Volvo)
- ▶ The original CDC can be retained and located in the dash
- ▶ Make sure about that the RDS and MP3 text is switched ON in the HU settings





Main differences between Lite MOST & MOST Dual FOT

Differences

- ▶ Lite is designed for cars **without Text capability**
- ▶ Lite has **only one FOT optical** connector therefore the original **CDC cannot be** retained
- ▶ There is **no AUX-Box** in the package
- ▶ Lite has no DIP switches therefore it requires a car configuration procedure
- ▶ **BTA1500 cannot be connected** to Lite

	GW500 (GW51MO2)	Gateway Lite MOST (GWLMO1)
Text	Yes	No
Retains factory CDC	Yes	No
AUX	Yes	No
BTA1500	Yes	No
DIP switches	Yes	Car config
iPod Dock cable	included	not included



Product	Picture	Compatibility	Compatible products
Active 3G Cradle IP44CR9		▶ Nano2 ▶ Nano3 ▶ iPhone 1. gen. ▶ Touch 1. gen. ▶ iPod 5G Video ▶ iPod Classic ▶ iPhone 4 gen. ▶ (additional Power Booster is required except for GW Five and Blue) ▶ Touch 3 gen.	Gateway 100 Gateway 300 Gateway 500 Gateway Lite BT Gateway Five Gateway Lite 3
Active 5G Cradle IP51CR9	 	▶ iPhone 3G and iPhone 3GS ▶ Nano 1G, 2G, 3G, 4G, 5G (with separate inserts: IP51AD1, IP51AD2, IP51AD3, IP51AD4, IP51AD5)	Gateway 100 Gateway 300 Gateway Lite BT Gateway Five Gateway Lite 3
iPod Dock Cable Kit IPO5DC9		For a neater installation simply have everything tucked away in your glove box with the help of the dock cable kit (IPO5DC9) ***IPO5DC9 is included in the Gateway 500 retail package	Gateway 100 Gateway 300 Gateway 500*** Gateway Lite BT Gateway Five Gateway Lite 3



Normal extension cables:

Product number	Product name	Description
EXT2IP9	9 PIN iPod extension cable	2 m, universal 5V & 12V
EXT1GW0	Gateway extension kit	2 m PIN iPod + 2 m USB extension cables
EXT1GW5	Gateway 500 extension kit	2 m AUX, 2 m iPod, 2 m USB extension cables
EXT1AU1	AUX IN Extension cable	3.5 mm jack (1,3 m)
EXT1BM4	18 PIN Extension cable for GW Five BMW	4,5 m

Fiber optical extension cables:

FOA1TL1	Tyco type simple optical loop
FOA1TY1	Tyco-Yazaki Converter kit
FOA1PO1	Porsche Cayenne optical extension kit for GW500 MOST
FOA2DB1	Optical signal attenuator D2B APS for GW500
UPB1000	USB power booster

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Gateway – Part numbers

► e.g. GW16VC1

GW

Gateway

1

Product

6

Hardware
Version

VC

Vehicle Type
VW CAN

1

Cable Type



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Thank you for your attention!

Máté Magócs
Dension Audio Systems Kft.

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